

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT NO. [REDACTED]

CD NO. [REDACTED]

25X1A

DATE DISTR. 2/ March 1951

NO. OF PAGES 1

COUNTRY USSR

SUBJECT Chemical Analysis of Nickel-Plating Anode Scrap Sample

PLACE ACQUIRED [REDACTED]

25X1A

DATE ACQUIRED BY [REDACTED]

NO. OF ENCLS. (LISTED BELOW)

SUPPLEMENT TO REPORT NO.

25X1X

DATE OF INFO [REDACTED]

1. A spectrographic analysis of the anode scrap metal in comparison with control samples of a U.S.A. cobalt free nickel anode and a nickel anode high purity sample is reported immediately below.

Element		Kiev Anode (per cent)	USA Cobalt Free Anode (per cent)	USA High Purity Anode (per cent)
Silver	Ag	Less than 0.001	-	-
Aluminum	Al	0.001 - 0.01	Less than 0.001	Less than 0.001
Cobalt	Co	0.01 - 0.1	0.001 - 0.01	0.1 - 1.0
Chromium	Cr	1.00 - 10.00	Less than 0.001	-
Copper	Cu	0.01 - 0.10	0.001 - 0.01	Less than 0.001
Iron	Fe	1.00 - 10.00	0.001 - 0.01	0.001 - 0.01
Magnesium	Mg	Less than 0.001	0.01 - 0.10	Less than 0.001
Manganese	Mn	0.001 - 0.01	0.001 - 0.01	Less than 0.001
Nickel	Ni	Over 10.00	Over 10.00	Over 10.00
Silicon	Si	0.01 - 0.10	0.001 - 0.01	Less than 0.001
Titanium	Ti	0.10 - 1.00	-	-

2. It will be noted that the Kiev sample contains a higher concentration of chromium and iron than either of the two U.S.A. samples. It is of interest also that the Kiev sample contains an appreciable amount of titanium.

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